Form C-104 Rev. 09/2008



APR 2 0 2009

VALUE ENGINEERING CHANGE PROPOSAL MISSOURI DEPARTMENT OF TRANSPORTATION

				Date 4/01/09
Contract ID 080425-605		Job No.	J6P1004	4
County <u>Franklin</u>		Original	Bid Cost	\$21,126,324.42
Contractor Millstone Bangert, Inc.		Ву _М	By Matthew Alwardt	
Designed By TBD		Phone	636-949	0-0038
ECP# <u>09-22</u> (to be con	npleted by C.O.)	VECP 🗵	or	VECP/PDU [
which will require removin wall # 7 & 8 and structure	for Homestead lane are ag 350 feet of the existing A7620 by dropping the wall with guardrail which engthen the limits of paction which will reduce	to build two ng pavement ne grade of I ch will reduc vement reco the amount	MSE was a MSE was a MSE was longestead to mestead to mestruction of time the mestruction of the mestruction of time time the mestruction of time time time time time time time time	lls and a cast-in-place wall posal is to eliminate MSE d lane by three feet and maintenance costs. In order by about 150 feet. This at Homestead lane will be
Estimate of reduction in const	ruction costs. \$75	5,290		
Homestead. There will also properly which will reduce Anticipated date for submittal Specifications.	futura maintanance coo	ete		
•		"		repials.
	4/3/2 (dat			
Deadline for issuing a change contract completion time or de	order to obtain maxin		duction, 1	noting the effect of
5/1/2009	No effect on co	ntract comp	letion tim	e.
(date)			(effect)	
Dates of any previous or concu	ırrent submission of t	he same pro	posal.	
	N/2	A		
	(date and/	or dates)		

Additional Comments:

In order to keep construction moving forward in the Homestead area we would like to start design as soon as possible pending conceptual approval.

** Portion Below This Line To Be Filled Out by MoDOT **

Comments: I support this VECP. The area management team supports the VECP as well. Not only will this VECP result in a cost savings, but it will reduce short term impacts to the local residents as well as reduce the future maintenance responsibilities of the Franklin County Highway Department. A separate spreadsheet is attached with all comments and questions as well as Millstone Bangerts reply. Upon approval of the VECP, Millstone will proceed with the design. Upon receipt, the design will be forwarded for review. Internal County Highway Department				
Com	ments: I Azcommisso	O Approval OF THIS VE CONCREPT. THE GEOGRAPHE OF THE REDESIGN ALONG WITH THE	OBIST OF RECORD	
	Must Also 😝 A	APPROVE OF THE REDESIGN ALONG WITH TH	HOSE NOTED ABOVE.	
_/	Annuovol			
V	Approval Recommended	Col Harry	4-20-09	
	Rejection	District Engineer	Date	
	Recommended			
Com	ments:	e is no Federal Oversight on this project.		
	Approval	N/A		
	Recommended Rejection	Federal Highway Administration	Date	
	Recommended	Required for FHWA Full Oversight Projects	Date	
Com	monts.		• • • • • • • • • • • • • • • • • • • •	
Comments: Conceptual approval is granted. Approval is dependent on comments above, including approval of the Geologist, and final approval of the design submitted. Denis Glascock. 04/22/2009				
X	Approval	David M. GODON	5-11-09	
	Rejection	State Construction and Materials Engineer	Date	

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Bid Item	Q	Description	Unit Price	Quantities	Original Cost	Quantities	VE Cost	st
30	2031000	2031000 CLASS A EXCAVATION	\$ 2.85.	213 CUYD	\$ 607.05	1000 CLIVD	\$ 2850.00	00.05
190	3040143	3040143 TYPE 1 AGGREGATE FOR BASE (4 IN. THICK)	\$ 4.50	TOO SQYD	6	1035 SOYD		4 657 50
220	4011209	4011209 BIT. PAVEMENT MIXTURE PG64-22 (BP-1)	\$ 145.75	O TONS	€9	3.5 TONS		510 13
230	4013000	4013000 BITUMINOUS PAVEMENT MIXTURE PG64-22 (BAS	\$ 87.00	SNOT 0	. 69	277TONS		669 90
240	4019905	4019905 MISC. PAVEMENT OPTIONAL PAVEMENT	\$ 22.50	700 SQYD	\$ 15.750.00	UVOS 0001	20	00.00
370	6061010	6061010 GUARDRAIL TYPE A	\$ 16.50	575 LF	69	778 I F		37.00
330	6062204	6062204 BRIDGE ANCHOR SECTION, 6 FT. OR 1830 MM	\$ 1,600.00	2 EA		OFA		3 ,
400	6062300	6062300 TRANSITION SECTION, 6 FT. OR 1830 MM POS	\$ 250.00	2 EA		OFA	U	Ţ,
410	6063015	6063015 TYPE A CRASHWORTHY END TERMINAL	<u> </u>	2 EA	60	2 FA	\$ 3570.00	70.07
570	6099903	6099903 MISC. PAVED DRAINAGE MOD. TYPE B CURB AN	\$ 35.22	3 O		500 F		10.00
1190	7201000	7201000 MECHANICALLY STABILIZED EARTH WALL SYS	\$ 43.95	835 SQFT	\$ 36,698.25	OSOFT		3 '
2770	2061000	2061000 CLASS 1 EXCAVATION	\$ 50.61	140 CUYD	\$ 7,085,40	OKNAD	6.	,
2780	2061003	2061003 CLASS 1 EXCAVATION IN ROCK	\$ 111.34	et CUYD	\$ 6.791.74	OKNO	6.	,
2790	7034009	7034009 CLASS B-1 CONCRETE (RETAINING WALLS)	\$ 414.98	107.4 CUYD	\$ 44,568.85	OCUYD	69	Ţ.
2800	7061040	7061040 REINFORCING STEEL (RETAINING WALL)	\$.1.83	4290 LB	\$ 7,850.70	OLB	₩	,
2810	7101000	7101000 REINFORCING STEEL (EPOXY COATED)	\$ 1.83	6140 LB	\$ 11,236.20	0 LB	69	
	~				\$		69	
		Design Services	\$ 10,000.00	0 LS	ω	11.5	\$ 10,000.00	00.00
					- -		₩.	:
		TOTALS	ı.		\$ 150,495.69		\$ 75,204.53	04.53
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Judy Wagner

Q: What will be the maximum slopes allowed (Rock)?

A: 1.5:1 max slope with rock. (will be no higher than 3' with this slope, behind guardrail only and on solid rock) This will be addressed during design in order to meet the requirements of a 10' setback.

Q: Are we going to include a maximum number of days that Homestead can be closed? A: Yes. I propose 10 working days.

Q: Do we need a crashworthy end section on the guardrail or does Rich want to specify some other kind of end treatment?

A: There is already a crashworthy setup in the job. The guardrail that we are proposing to add into the job will tie into quardrail on both sides that was already in the original contract.

Tim Schroeder

Q: A new component of this evaluation, based on External Civil Rights Training yesterday, is that we should ask the question: Does the elimination of the MSE walls and the CIP wall reduce the DBE contribution to the project? We should communicate to the contractor that we (MoDOT) are serious about reaching our DBE goals and our trainee hours.

A: The MSE walls are a reduction in DBE participation by 0.17% from the original contract. According to my numbers, MBI has 15.4% DBE participation on this project that only requires 14%. MBI will make every effort to make sure that our DBE participation is met on this project.

St. Clair Project Office

Q: Have utilities been addressed?

A: Upon initial inspection we believe that utilities will not be an issue.

Q: What about the condition of the Rock Face between Homestead and New Route 100

A: The rock face could be an issue even if we built the job per the original contract. This will have to be addressed in the field when the rock face is completely opened up.

Q: Final quantities will be determined by field measurements

A. Ves

Q: Need to make sure we include 24/7 access for all property owners

A: Yes.

Q: Need to make sure we communicate with property owners

A: Yes.

Q: Need to make sure we address drainage

A: Drainage should be taken care of by the curb and gutter that will be on the low side of the super. The area that we are lowering the road is at the top of the hill and water shedding off the road will be caught by the gutter and run down the road to ditches at both ends.

Q: Need to include a maximum # of Days for closure with penalties (7 calendar days?).

A: I propose 10 working days because we will have to maintain access to parcel 68 during construction which may require staging construction.

Rich Wilson

This is the first time I have seen this and I have not seen any plan drawings and affect on the residents. Driveway slopes and loss of trees?

What advantage is it to the county?

My Response to Rich: Rich - I had you in the original email, but you and a couple others were accidentally deleted just prior to sending it out. The proposal enclosed is just a conceptual. The design will follow once we give preliminary approval. The benefits to the county include a shorter road closure, less maintenance (guardrail vs. retaining walls) and more new pavement (additional 150' with a possible geometric improvements - will have to wait to see what comes out of the design). As for as the impacts to the residents, we will be reducing that by shortening the closure time. Driveway slopes will be addressed and shown on the plans when completed. We could always go back further to decrease the slope. As far as trees, we were going to address that in the field. You will be given an opportunity to review the plans once they are complete. Please don't hesitate to call or email should you have any comments or questions.

VALUE ENGINEERING CHECK SHEET

	TYPE OF WORK (Check one that applies)
	Bridge/Structure/Footings
	Drainage Structures (RCP, RCB, CMP's, ect.)
	TCP/MOT
	Paving (PCCP, ect.)
\triangleright	Grading/MSE Walls
	Signal/Lighting/ITS
	Misc.

SUMMARY OF PROPOSAL (If needed, condense summary to a couple of lines)
Change in grade, lengthening pavement limits, and addition of guard rail eliminates MSE and cast-in-place walls.

SCANNING OF DOCUMENT
If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.